

REPLACEMENT SHEET

FIG. 2A

	(SEQ ID NO. 28)	Q V Q L Q Q S G P E L V K P	
KRI27VH	(SEQ ID NO. 27)	CAG GTC CAG CTG CAG CAG TCT GGA CCT GAA CTG GTG AAG CCT	42
	(SEQ ID NO. 44)	Q V Q L V Q S G A E V K K P	
DP7-JH4	(SEQ ID NO. 43)	CAG GTG CAG CTG GTG CAG TCT GGG GCT GAG GTG AAG AAG CCT	
HZI	(SEQ ID NO. 35)	CAG GTC CAG CTG GTG CAG TCT GGA GCT GAA GTG GTG AAG CCT	
HZVII	(SEQ ID NO. 1)	CAG GTC CAG CTG GTG CAG TCT GGA GCT GAA GTG AAG AAG CCT	
HZI	(SEQ ID NO. 36)	- - - - V - - - A - V - - -	
HZVII	(SEQ ID NO. 2)	- - - - V - - - A - V K - -	
	(SEQ ID NO. 28)	G A S V K I S C K A S G Y A	
KRI27VH	(SEQ ID NO. 27)	GGG GCC TCA GTG AAG ATT TCC TGC AAA GCT TCT GGC TAC GCA	84
	(SEQ ID NO. 44)	G A S V K V S C K A S G Y T	
DP7-JH4	(SEQ ID NO. 43)	GGG GCC TCA GTG AAG GTT TCC TGC AAG GCA TCT GGA TAC ACC	
HZI	(SEQ ID NO. 35)	GGG GCC TCA GTG AAG GTT TCC TGC AAA GCT TCT GGC TAC GCA	
HZVII	(SEQ ID NO. 1)	GGG GCC TCA GTG AAG GTT TCC TGC AAA GCT TCT GGC TAC ACC	
HZI	(SEQ ID NO. 36)	- - - - - V - - - - -	
HZVII	(SEQ ID NO. 2)	- - - - - V - - - - - T	
	(SEQ ID NO. 28)	F S <u>S S</u> ^{CDR1} W M N W V K Q R P G	
KRI27VH	(SEQ ID NO. 27)	TTC AGT AGT TCT TGG ATG AAC TGG GTG AAG CAG AGG CCT GGA	126
	(SEQ ID NO. 44)	F T S Y Y M H W V R Q A P G	
DP7-JH4	(SEQ ID NO. 43)	TTC ACC AGC TAC TAT ATG CAC TGG GTG CGA CAG GCC CCT GGA	
HZI	(SEQ ID NO. 35)	TTC AGT AGT TCT TGG ATG AAC TGG GTG CGA CAG GCC CCT GGA	
HZVII	(SEQ ID NO. 1)	TTC ACC AGT GCT TGG ATG AAC TGG GTG CGA CAG GCC CCT GGA	
HZI	(SEQ ID NO. 36)	- - - - - - - - R - A - -	
HZVII	(SEQ ID NO. 2)	- T - A - - - - - R - A - -	
	(SEQ ID NO. 28)	Q G L E W I G <u>R I</u> ^{CDR2} Y P G D G	
KRI27VH	(SEQ ID NO. 27)	CAG GGT CTT GAG TGG ATT GGA CGG ATT TAT CCT GGA GAT GGA	168
	(SEQ ID NO. 44)	Q G L E W M G I I N P S G G	
DP7-JH4	(SEQ ID NO. 43)	CAA GCG CTT GAG TGG ATG GGA ATA ATC AAC CCT AGT GGT GGT	
HZI	(SEQ ID NO. 35)	CAG GGT CTT GAG TGG ATT GGA CGG ATT TAT CCT GGA GAT GGA	
HZVII	(SEQ ID NO. 1)	CAG GGT CTT GAG TGG ATG GGA CGG ATT TAT CCT AGT GGT GGA	
HZI	(SEQ ID NO. 36)	- - - - - - - - - - - - -	
HZVII	(SEQ ID NO. 2)	- - - - - M - - - - - S G -	

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FIG. 2B

		CDR2													
		D	T	N	Y	N	G	K	F	K	G	K	A	T	L
KRI27VH	(SEQ ID NO. 28)	GAT	ACT	AAC	TAC	AAT	GGG	AAG	TTC	AAG	GGC	AAG	GCC	ACA	CTG 210
	(SEQ ID NO. 44)	S	T	S	Y	A	Q	K	F	Q	G	R	V	T	M
DP7-JH4	(SEQ ID NO. 43)	AGC	ACA	AGC	TAC	GCA	CAG	AAG	TTC	CAG	GGC	AGA	GTC	ACC	ATG
HZI	(SEQ ID NO. 35)	GAT	ACT	AAC	TAC	GCA	CAG	AAG	TTC	CAG	GGC	AAG	GCC	ACA	CTG
HZVII	(SEQ ID NO. 1)	AGC	ACT	AGC	TAC	GCA	CAG	AAG	TTC	CAG	GGC	AGA	GTC	ACA	ATG
HZI	(SEQ ID NO. 36)	-	-	-	-	A	Q	-	-	Q	-	-	-	-	-
HZVII	(SEQ ID NO. 2)	S	-	S	-	A	Q	-	-	Q	-	R	V	-	M
	(SEQ ID NO. 28)	T	A	D	K	S	S	S	T	A	Y	M	Q	L	S
KRI27VH	(SEQ ID NO. 27)	ACT	GCA	GAC	AAA	TCC	TCC	AGC	ACA	GCC	TAC	ATG	CAG	CTC	AGC 252
	(SEQ ID NO. 44)	T	R	D	T	S	T	S	T	V	Y	M	E	L	S
DP7-JH4	(SEQ ID NO. 43)	ACC	AGG	GAC	ACG	TCC	ACG	AGC	ACA	GTC	TAC	ATG	GAG	CTG	AGC
HZI	(SEQ ID NO. 35)	ACT	GCA	GAC	AAA	TCC	ACG	AGC	ACA	GCC	TAC	ATG	GAG	CTC	AGC
HZVII	(SEQ ID NO. 1)	ACT	GCA	GAC	AAA	TCC	ACG	AGC	ACA	GTC	TAC	ATG	GAG	CTC	AGC
HZI	(SEQ ID NO. 36)	-	-	-	-	-	T	-	-	-	-	-	E	-	-
HZVII	(SEQ ID NO. 2)	-	-	-	-	-	T	-	-	V	-	-	E	-	-
	(SEQ ID NO. 28)	S	L	T	S	V	D	S	A	V	Y	F	C	A	R
KRI27VH	(SEQ ID NO. 27)	AGC	CTG	ACC	TCT	GTG	GAC	TCT	GCG	GTC	TAT	TTC	TGT	GCA	AGA 294
	(SEQ ID NO. 44)	S	L	R	S	E	D	T	A	V	Y	Y	C	A	R
DP7-JH4	(SEQ ID NO. 43)	AGC	CTG	AGA	TCT	GAG	GAC	ACG	GCC	GTG	TAT	TAC	TGT	GCG	AGA
HZI	(SEQ ID NO. 35)	AGC	CTG	AGA	TCT	GAG	GAC	ACG	GCG	GTC	TAT	TTC	TGT	GCA	AGA
HZVII	(SEQ ID NO. 1)	AGC	CTG	AGA	TCT	GAG	GAC	ACG	GCG	GTG	TAT	TAC	TGT	GCA	AGA
HZI	(SEQ ID NO. 36)	-	-	R	-	E	-	T	-	-	-	-	-	-	-
HZVII	(SEQ ID NO. 2)	-	-	R	-	E	-	T	-	-	-	Y	-	-	-
		CDR3													
		E	Y	D	E	A	Y	W	G	Q	G	T	L	V	T
KRI27VH	(SEQ ID NO. 27)	GAG	TAC	GAC	GAG	GCT	TAC	TGG	GGC	CAA	GGG	ACT	CTG	GTC	ACT 336
	(SEQ ID NO. 44)							W	G	Q	G	T	L	V	T
DP7-JH4	(SEQ ID NO. 43)	NNN	NNN	NNN	NNN	NNN	TAC	TGG	GGC	CAA	GGA	ACT	CTG	GTC	ACT
HZI	(SEQ ID NO. 35)	GAG	TAC	GAC	GAG	GCT	TAC	TGG	GGC	CAA	GGA	ACT	CTG	GTC	ACT
HZVII	(SEQ ID NO. 1)	GAG	TAC	CGG	GTT	GCC	CGT	TGG	GGC	CAA	GGA	ACT	CTG	GTC	ACT
HZI	(SEQ ID NO. 36)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HZVII	(SEQ ID NO. 2)	-	-	R	V	-	R	-	-	-	-	-	-	-	-

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FIG. 2C

	(SEQ ID NO. 28)	V	S	A	
KRI27VH	(SEQ ID NO. 27)	GTC	TCT	GCA	345
	(SEQ ID NO. 44)	V	S	S	
DP7-JH4	(SEQ ID NO. 43)	GTC	TCT	TCA	
HZI	(SEQ ID NO. 35)	GTC	TCT	TCA	
HZVII	(SEQ ID NO. 1)	GTC	TCT	TCA	
HZI	(SEQ ID NO. 36)	-		S	
HZVII	(SEQ ID NO. 2)	-		S	

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FIG. 4A

	(SEQ ID NO. 30)	D	I	L	M	T	Q	T	P	L	I	L	S	V	T		
KRI27VK	(SEQ ID NO. 29)	GAT	ATC	TTG	ATG	ACC	CAA	ACT	CCA	CTT	ATT	TTG	TCG	GTT	ACC	42	
	(SEQ ID NO. 46)	D	I	V	M	T	Q	T	P	L	S	L	S	V	T		
DPK12-JK4	(SEQ ID NO. 45)	GAT	ATT	GTG	ATG	ACC	CAG	ACT	CCA	CTC	TCT	CTG	TCC	GTC	ACC		
HZI	(SEQ ID NO. 37)	GAT	ATC	TTG	ATG	ACC	CAA	ACT	CCA	CTT	TCT	TTG	TCG	GTT	ACC		
HZIV	(SEQ ID NO. 3)	GAT	ATC	GTG	ATG	ACC	CAA	ACT	CCA	CTT	TCT	TTG	TCG	GTT	ACC		
HZI	(SEQ ID NO. 38)	-	-	-	-	-	-	-	-	-	S	-	-	-	-		
HZIV	(SEQ ID NO. 4)	-	-	V	-	-	-	-	-	-	S	-	-	-	-		
	(SEQ ID NO. 30)	I	G	Q	P	A	S	I	S	C	K	S	CDR1				
KRI27VK	(SEQ ID NO. 29)	ATT	GGA	CAA	CCA	GCC	TCT	ATC	TCT	TGC	AAG	TCA	AGT	CAG	AGC	84	
	(SEQ ID NO. 46)	P	G	Q	P	A	S	I	S	C	K	S	S	Q	S		
DPK12-JK4	(SEQ ID NO. 45)	CCT	GGA	CAG	CCG	GCC	TCC	ATC	TCC	TGC	AAG	TCT	AGT	CAG	AGC		
HZI	(SEQ ID NO. 37)	CCT	GGA	CAA	CCA	GCC	TCT	ATC	TCT	TGC	AAG	TCA	AGT	CAG	AGC		
HZIV	(SEQ ID NO. 3)	CCT	GGA	CAA	CCA	GCC	TCT	ATC	TCT	TGC	AAG	TCA	AGT	CAG	AGC		
HZI	(SEQ ID NO. 38)	P	-	-	-	-	-	-	-	-	-	-	-	-	-		
HZIV	(SEQ ID NO. 4)	P	-	-	-	-	-	-	-	-	-	-	-	-	-		
	(SEQ ID NO. 30)	CDR1															
KRI27VK	(SEQ ID NO. 29)	L	L	Y	S	N	G	K	T	Y	L	N	W	L	L		
	(SEQ ID NO. 46)	CTC	TTA	TAT	AGT	AAT	GGA	AAA	ACC	TAT	TTG	AAT	TGG	TTA	TTA	126	
DPK12-JK4	(SEQ ID NO. 45)	L	L	H	S	D	G	K	T	Y	L	Y	W	Y	L		
HZI	(SEQ ID NO. 37)	CTC	CTG	CAT	AGT	GAT	GGA	AAG	ACC	TAT	TTG	TAT	TGG	TAC	CTG		
HZIV	(SEQ ID NO. 3)	CTC	TTA	TAT	AGT	AAT	GGA	AAA	ACC	TAT	TTG	AAT	TGG	TTA	TTA		
HZI	(SEQ ID NO. 38)	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
HZIV	(SEQ ID NO. 4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	(SEQ ID NO. 30)	Q	R	P	G	Q	S	P	K	R	L	I	Y	CDR2			
KRI27VK	(SEQ ID NO. 29)	CAG	AGG	CCA	GGC	CAG	TCT	CCA	AAG	CGC	CTA	ATC	TAT	CTG	GTG	168	
	(SEQ ID NO. 46)	Q	K	P	G	Q	P	P	Q	L	L	I	Y	E	V		
DPK12-JK4	(SEQ ID NO. 45)	CAG	AAG	CCA	GGC	CAG	CCT	CCA	CAG	CTC	CTG	ATC	TAT	GAA	GTT		
HZI	(SEQ ID NO. 37)	CAG	AAG	CCA	GGC	CAG	TCT	CCA	AAG	CGC	CTA	ATC	TAT	CTG	GTG		
HZIV	(SEQ ID NO. 3)	CAG	AAG	CCA	GGC	CAG	CCT	CCA	CAG	CGC	CTA	ATC	TAT	CTG	GTG		
HZI	(SEQ ID NO. 38)	-	K	-	-	-	-	-	-	-	-	-	-	-	-		
HZIV	(SEQ ID NO. 4)	-	K	-	-	-	P	-	Q	-	-	-	-	-	-		

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FIG. 4B

	(SEQ ID NO. 30)	CDR2														
KRI27VK	(SEQ ID NO. 29)	S	K	L	D	S	G	V	P	D	R	F	T	G	S	
	(SEQ ID NO. 46)	S	N	R	F	S	G	V	P	D	R	F	S	G	S	
DPK12-JK4	(SEQ ID NO. 45)	TCC	AAC	CGG	TTC	TCT	GGA	GTG	CCA	GAT	AGG	TTC	AGT	GGC	AGC	
HZI	(SEQ ID NO. 37)	TCT	AAA	CTG	GAC	TCT	GGA	GTC	CCT	GAC	AGG	TTC	AGT	GGC	AGT	
HZIV	(SEQ ID NO. 3)	TCT	AAT	CGG	GAC	TCT	GGA	GTC	CCT	GAC	AGG	TTC	AGT	GGC	AGT	
HZI	(SEQ ID NO. 38)	-	-	-	-	-	-	-	-	-	-	-	S	-	-	
HZIV	(SEQ ID NO. 4)	-	N	R	-	-	-	-	-	-	-	-	S	-	-	

	(SEQ ID NO. 30)	G	S	G	T	D	F	T	L	K	I	I	R	V	E
KRI27VK	(SEQ ID NO. 29)	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	ATC	AGA	GTG	GAG 252
	(SEQ ID NO. 46)	G	S	G	T	D	F	T	L	K	I	S	R	V	E
DPK12-JK4	(SEQ ID NO. 45)	GGG	TCA	GGG	ACA	GAT	TTT	ACA	CTG	AAA	ATC	AGC	CGG	GTG	GAG
HZI	(SEQ ID NO. 37)	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	AGC	AGA	GTG	GAG
HZIV	(SEQ ID NO. 3)	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	AGC	AGA	GTG	GAG
HZI	(SEQ ID NO. 38)	-	-	-	-	-	-	-	-	-	-	-	S	-	-
HZIV	(SEQ ID NO. 4)	-	-	-	-	-	-	-	-	-	-	-	S	-	-

	(SEQ ID NO. 30)	A	E	D	L	G	V	Y	Y	C	CDR3				
KRI27VK	(SEQ ID NO. 29)	GCT	GAG	GAT	TTG	GGA	GTT	TAT	TAC	TGC	GTG	CAA	GGT	ACA	CAT 294
	(SEQ ID NO. 46)	A	E	D	V	G	V	Y	Y	C	M	Q	S	I	Q
DPK12-JK4	(SEQ ID NO. 45)	GCT	GAG	GAT	GTT	GGG	GTT	TAT	TAC	TGC	ATG	CAA	AGT	ATA	CAG
HZI	(SEQ ID NO. 37)	GCT	GAG	GAT	GTT	GGA	GTT	TAT	TAC	TGC	GTG	CAA	GGT	ACA	CAT
HZIV	(SEQ ID NO. 3)	GCT	GAG	GAT	GTT	GGA	GTT	TAT	TAC	TGC	GTG	CAA	GGT	ACA	CAT
HZI	(SEQ ID NO. 38)	-	-	-	V	-	-	-	-	-	-	-	-	-	-
HZIV	(SEQ ID NO. 4)	-	-	-	V	-	-	-	-	-	-	-	-	-	-

	(SEQ ID NO. 30)	CDR3				F	G	G	G	T	K	L	E	I	K
KRI27VK	(SEQ ID NO. 29)	F	P	Q	T	TTT	CCT	CAG	ACG	TTC	GGT	GGA	GGG	ACC	AAG
	(SEQ ID NO. 46)	L	P		T	P	G	G	G	T	K	V	E	I	K
DPK12-JK4	(SEQ ID NO. 45)	CTT	CCT	CCN	ACG	TTC	GGT	GGA	GGC	ACC	AAG	GTG	GAA	ATC	AAA
HZI	(SEQ ID NO. 37)	TTT	CCT	CAG	ACG	TTC	GGT	GGA	GGC	ACC	AAG	GTG	GAA	ATC	AAA
HZIV	(SEQ ID NO. 3)	TTT	CCT	CAG	ACG	TTC	GGT	GGA	GGC	ACC	AAG	GTG	GAA	ATC	AAA
HZI	(SEQ ID NO. 38)	-	-	-	-	-	-	-	-	-	-	V	-	-	-
HZIV	(SEQ ID NO. 4)	-	-	-	-	-	-	-	-	-	-	V	-	-	-